

ABSTRACT OF THE INVENTION

A method for managing a connection context database comprises the steps of obtaining connection information, sensing the network load of each connection, and allocating system resources with high priority to active connections and low priority to inactive connections. This results in a dynamic context database which enables a limited number of resources to be best used by the most active connections. The method further comprises aggregating TCP/IP packets from the same connection based on information found in the dynamic context database. The processing time of TCP/IP packets received from a host is accelerated through the use of the dynamic context database for aggregation of two or more packets of the same connection.